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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/723,571	11/25/2003	Murtuza Lokhandwalla	135832-1	9110
••••	590 01/11/200 ECTRIC COMPANY	EXAMINER		
GLOBAL RESEARCH			CHENG, JACQUELINE	
PATENT DOCKET RM. BLDG. K1-4A59 NISKAYUNA, NY 12309		4A59	ART UNIT	PAPER NUMBER
,			3768	
SHORTENED STATUTORY	PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/11/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	MI.				
	Application No.	Applicant(s)			
Office Action Cummon.	10/723,571	LOKHANDWALLA ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAN INC DATE of the	Jacqueline Cheng	3768			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with th	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period was pailing to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be vill apply and will expire SIX (6) MONTHS for cause the application to become ABANDO	ON. e timely filed  rom the mailing date of this communication.  DNED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 25 No					
2a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) 1-15 is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-15</u> is/are rejected. 7)□ Claim(s) is/are objected to.					
Application Papers					
9) The specification is objected to by the Examiner	r.				
10)⊠ The drawing(s) filed on <u>25 November 2003</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.					
Applicant may not request that any objection to the o	drawing(s) be held in abeyance. S	See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correcti	_				
11) ☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Offi	ce Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
<ul> <li>12) ☐ Acknowledgment is made of a claim for foreign</li> <li>a) ☐ All b) ☐ Some * c) ☐ None of:</li> <li>1. ☐ Certified copies of the priority documents</li> </ul>	•	(a)-(d) or (f).			
2. Certified copies of the priority documents		ation No			
3.☐ Copies of the certified copies of the priori	, ,				
application from the International Bureau	-	C			
* See the attached detailed Office action for a list of	of the certified copies not recei	ved.			
Attach as a star of the star o					
Attachment(s)  Notice of References Cited (PTO-892)	A) [] ]	(PTO 442)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summa Paper No(s)/Mail				
B) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 8/05 10/04 7/04.	5) Notice of Informa 6) Other:	al Patent Application (PTO-152)			

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## **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent No. 6,425,865 B1 (herein referred to as Salcudean et al.) in view of US Patent No. 6,574,499 B1 (herein referred to as Dines et al.).
- 3. Claims 1, 2, 3, 7-11, 14 and 15: Salcudean et al. discloses a system for medical ultrasound in which the ultrasound probe is positioned by a robot arm under control of the ultrasound operator and a computer. The probe can be pitched, rolled, spun, and moved in all 3 directions (having a tilt degree of freedom about a first and second axis, and a rotational degree about a third axis). The connections of the probe to the frame that allow the probe to tilt and rotate are all deformable back to its original position, therefore being resilient pivot connections (col. 3 line 1-10, abstract, fig. 2). What Salcudean et al. does not explicitly disclose is the use of this probe with compression plated mammography. Dines et al. discloses performing mammography with compression plates and imaging with both x-ray and ultrasound. The ultrasonic imaging is done with a control and motion system for driving an ultrasound probe (abstract). The probe can be scanned automatically across a surface of the compression paddle (col. 8 line 1-2). It would be obvious to one with ordinary skill in the art at the time of the

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invention to combine Dines et al. with Salcudean et al. as any ultrasonic imaging apparatus can be used in place of the imaging apparatus disclosed in Dines et al. and Salcudean et al. discloses that the ultrasound system can be used in any medical ultrasound examinations.

- 4. Claim 4: Salcudean et al. discloses that the ultrasonic system comprises sensors to sense the position and orientation (the tilt and position of all directions) of the probe (col. 2 line 57-60). Dines et al. also discloses an encoder for monitoring the Z-position of the ultrasound probe (col. 7 line 1-4).
- 5. Claims 5, 6, 12, and 13: Salcudean et al. discloses that the computer can be programmed to hold the ultrasound at a fixed position (col. 3 line 36-40). Since Salcudean et al. provides the same outcome of blocking the tilt degree of freedom about any axis the particulars of the aperture and clamp are therefore not needed.

## Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jacqueline Cheng whose telephone number is 571-272-5596. The examiner can normally be reached on M-F 9:00-5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eleni Mantis-Mercader can be reached on 571-272-4740. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

JC

BRIAN L. CASLER
SUPERVISORY PATERIT EXAMINER
TECHNOLOGY CENTER 3700

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